

ISB-3216

16K x 8 CMOS

STD BUS Memory Card

with Battery Back-Up

FEATURES

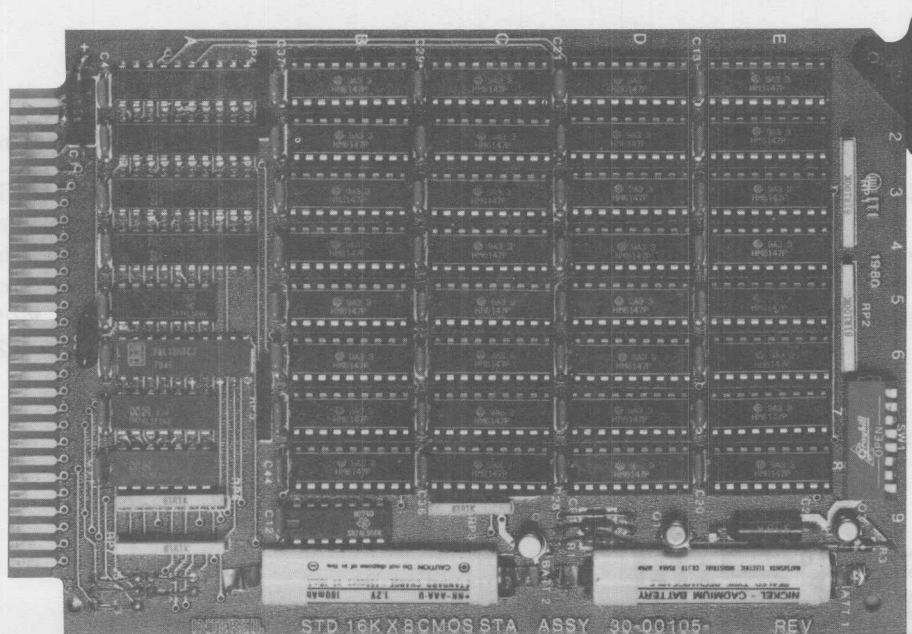
- Up to 16K Bytes on a Single Card
- Full STD-BUS Compatibility
- Equal Access and Cycle Times, 230ns Max.
- Independent 4K and 8K Blocks with Starting Address Switch Selectable
- Fully Static Operation — No Refresh Required
- Single +5V Operation
- On-Board Battery Back-up, providing 144 hours of Data Retention at 25°C.

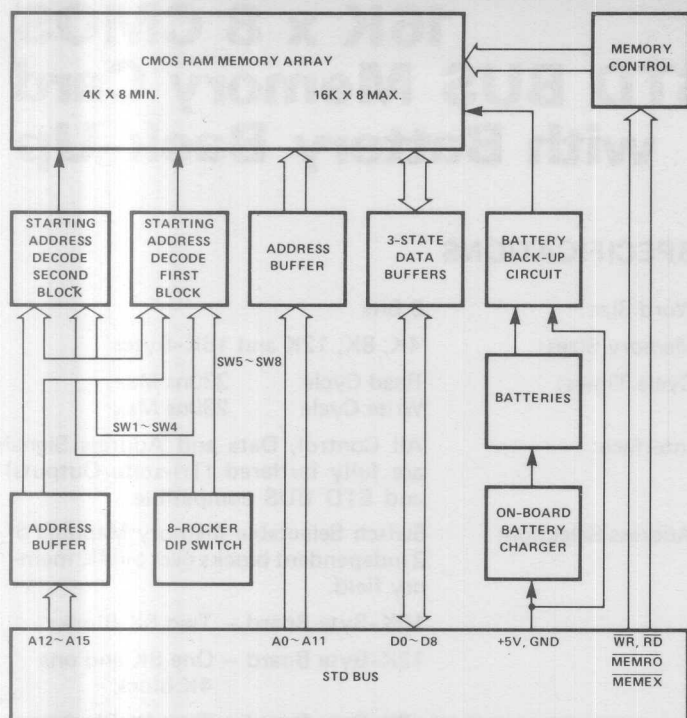
GENERAL DESCRIPTION

The Intersil STD BUS 16K-Byte CMOS RAM Memory Board is a member of Intersil's family of STD BUS compatible processor, memory and I/O interface boards. The board contains 16K-Bytes of static read/write memory, implemented using 4K x 1 static CMOS RAM components. No refresh hardware is required. On-board switch selectable memory mapping is provided in two independent blocks over a 64K memory field. Battery back-up is provided for data retention (up to 144 hours) during power losses or board removal.

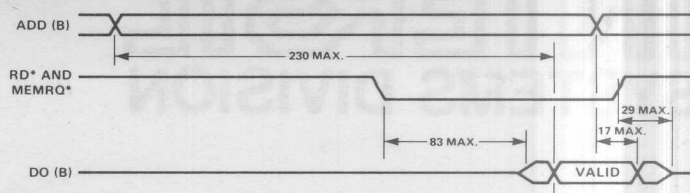
SPECIFICATIONS

Word Size:	8 Bits
Memory Sizes:	4K, 8K, 12K and 16K-Bytes
Cycle Times:	Read Cycle 230ns Max. Write Cycle 230ns Max.
Interface:	All Control, Data and Address Signals are fully buffered (Tri-state Outputs) and STD BUS compatible
Address Selection:	Switch Selectable Memory Mapping of 2 independent blocks over a 64K memory field. 16K-Byte Board — Two 8K Blocks 12K-Byte Board — One 8K and one 4K block 8K-Byte Board — Two 4K Blocks 4K-Byte Board — One 4K Block
Power Requirements:	5 VDC @ .7 Amp
Operation:	Fully Static Operation
Battery Backup/ Memory Retention:	144 Hours @ 25°C
Operating Temperature:	0°C to 70°C (Primary Power) 0°C to 55°C (Battery Power)
Edge Connector:	56 Pin Double-Sided PC Edge Connector with .125 inch contact spacing.
Physical Characteristics:	Length — 6.50 inches (16.50 cm) Width — 4.48 inches (11.38 cm) Board Thickness — 0.062 inch (0.158 cm) Component Height above board — 0.338 inch (0.858 cm)

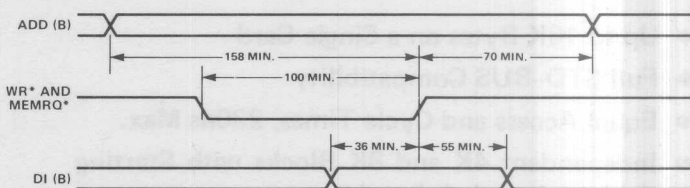




ISB-3216 BLOCK DIAGRAM



READ CYCLE



WRITE CYCLE

COMPATIBLE EDGE CONNECTORS					
INTERFACE	NO. OF PAIRS/PINS	CENTERS	CONNECTOR TYPE	VENDOR	VENDOR P/N
STD BUS	18/56	0.125 inch	Solder Tail	Viking Winchester	VH28/ICNK5 2HW28 D0-111
STD BUS	28/56	0.125 inch	Wire Wrap	Viking Winchester	VH28/ICND5 HW28 D0-111

ADDRESS MAPPING BLOCK SIZES	
BOARD CONFIG.	RELOCATABLE MAP SIZES
16K	Two Independent 8K Blocks
12K	One Independent 4K Block, One Independent 8K Block
8K	Two Independent 4K Blocks
4K	One 4K Block

ORDERING INFORMATION		
ORDERING PART NO.		CAPACITY
ISB-3204	547	4K x 8
ISB-3208	690	8K x 8
ISB-3212	834	12K x 8
ISB-3216	976	16K x 8

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